LAB 08 – FINAL PROJECT

Cyber Security Essentials
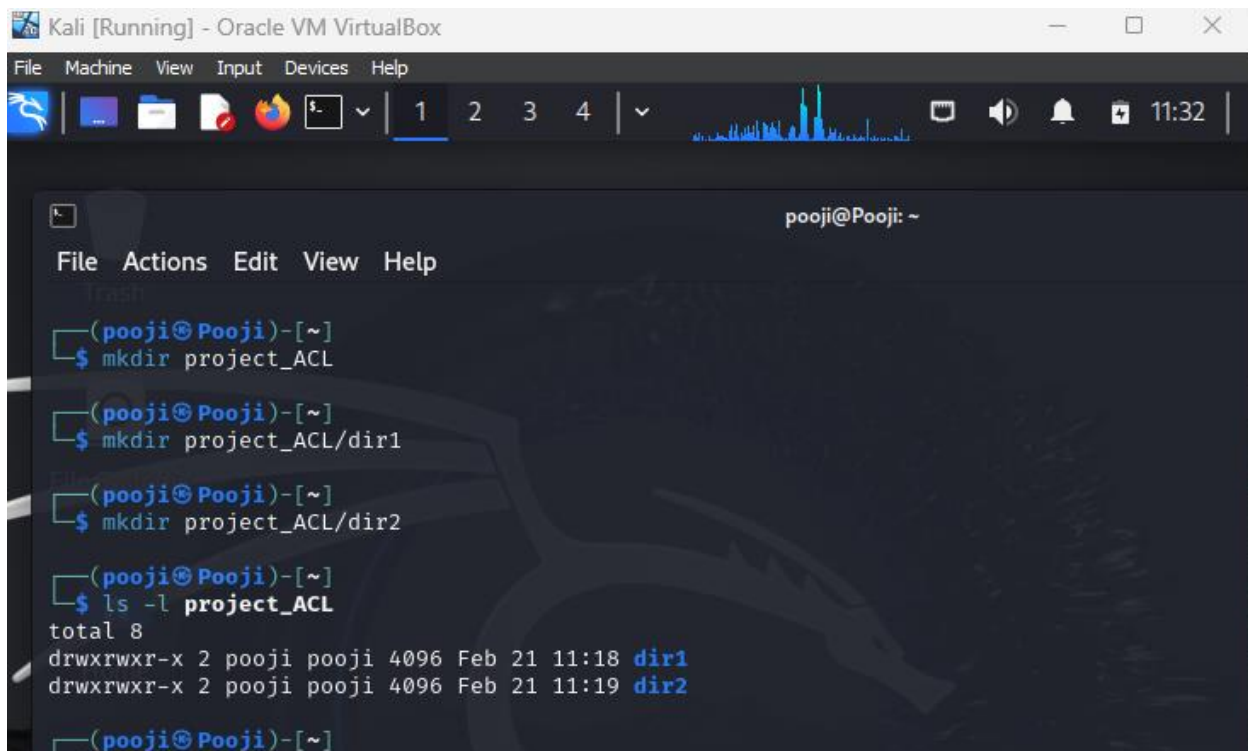
Name: M D P Induwara

VU ID: 8145490

NSBM ID: 30229

Step 1: Create Directories for the Project

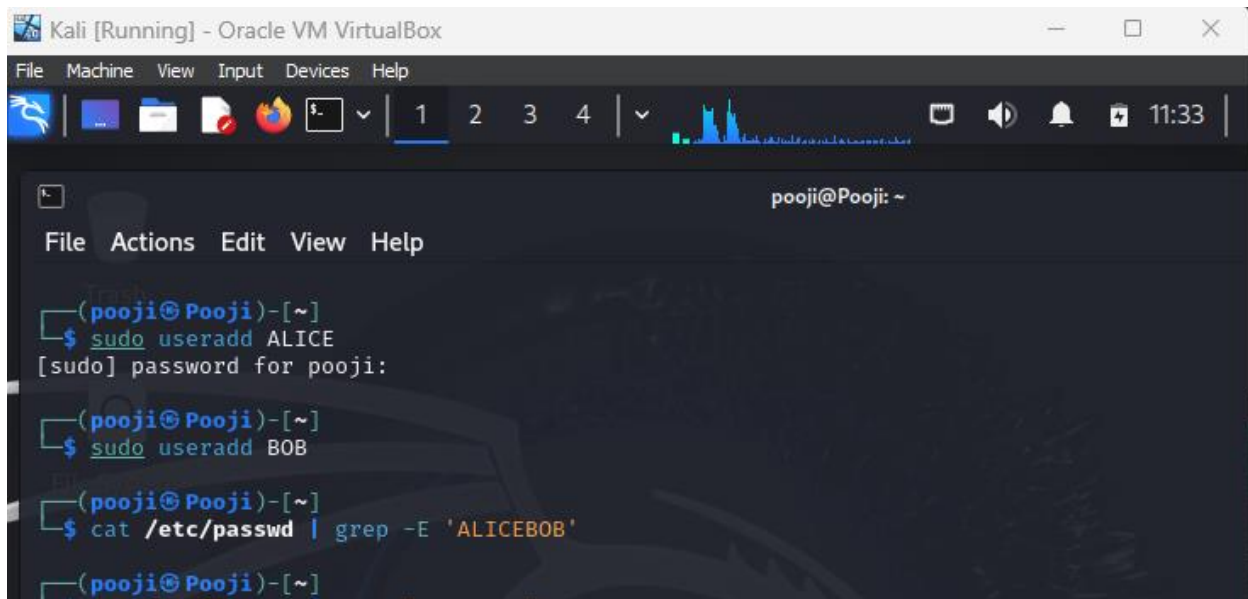Directory - " project_ACL"

Sub directory- dir1

(Commands used – mkdir, ls -l)

Step 2: Create Users (ALICE and BOB)

(Commands used – useradd, passwd, cat /etc/passwd | grep)
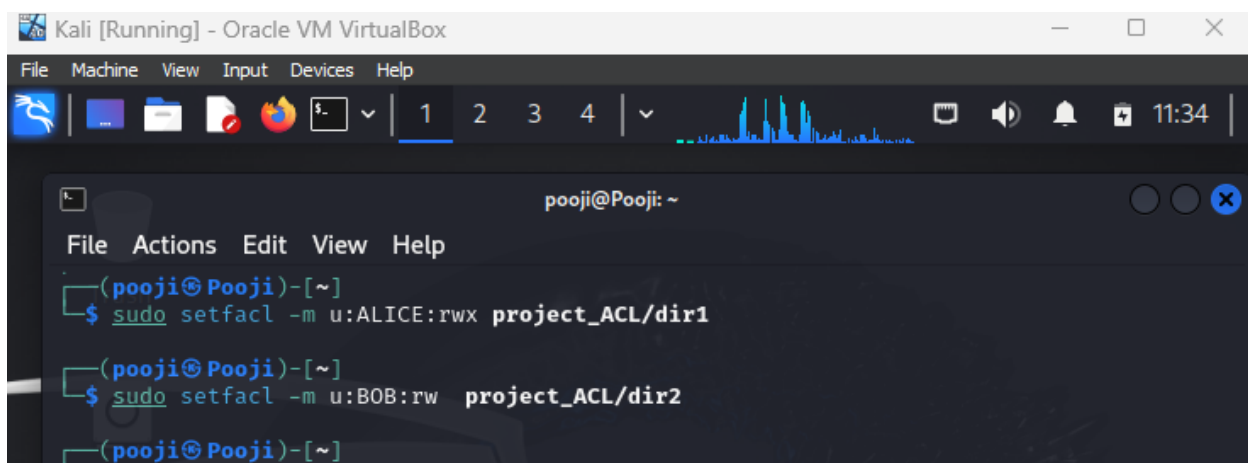

Step 3: Set ACL for Users on Each Directory

Grant different permissions to users for each directory:

ALICE: rwx

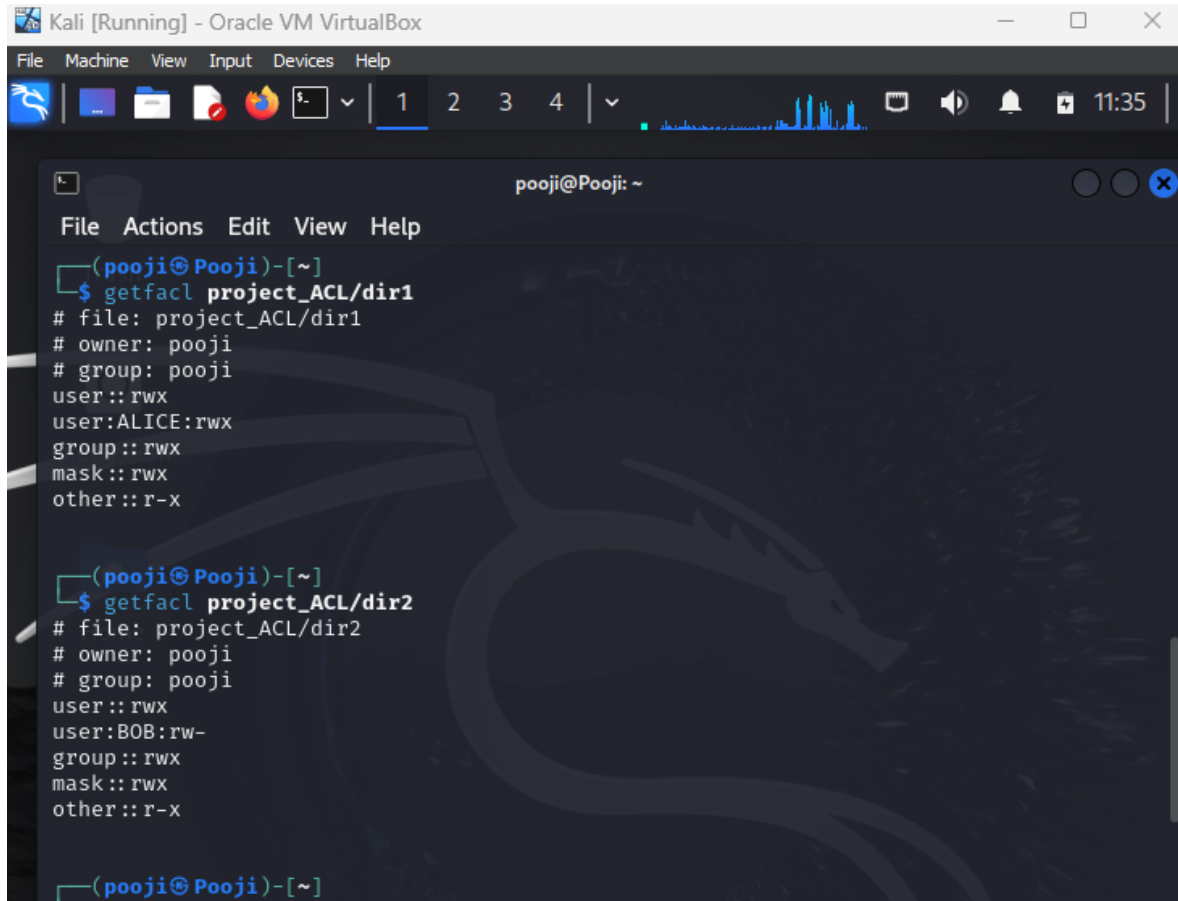BOB:rw

(Command used – sefacl -m u:'username':'permissions')

Step 4: Verify Given Permissions

(Commands used – getfacl)

To verify ACL settings:

Step 5: Create Groups and verify the group creation

Creating group: devs

(Commands used – groupadd, cat/etc/group | grep)
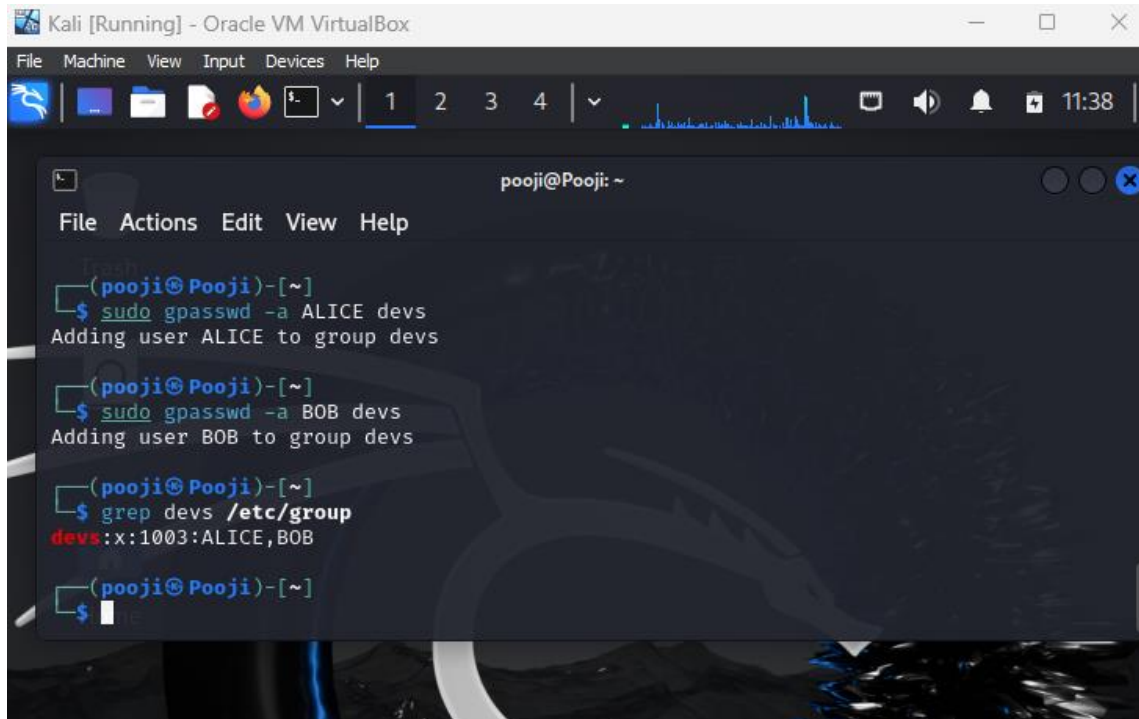
Step 6: Add Users to Groups I have created

(Command used – gpasswd – a)

Add ALICE and BOB to the group "devs"
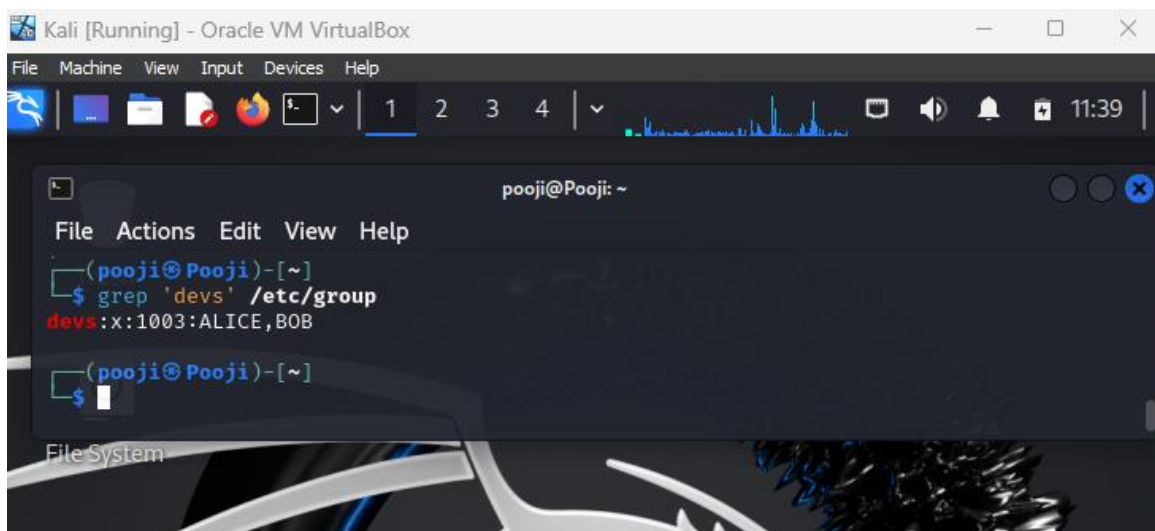
And check group members (ALICE and BOB)

Step 7: Check Group Memberships

(commands used – grep "group name" /etc/group)
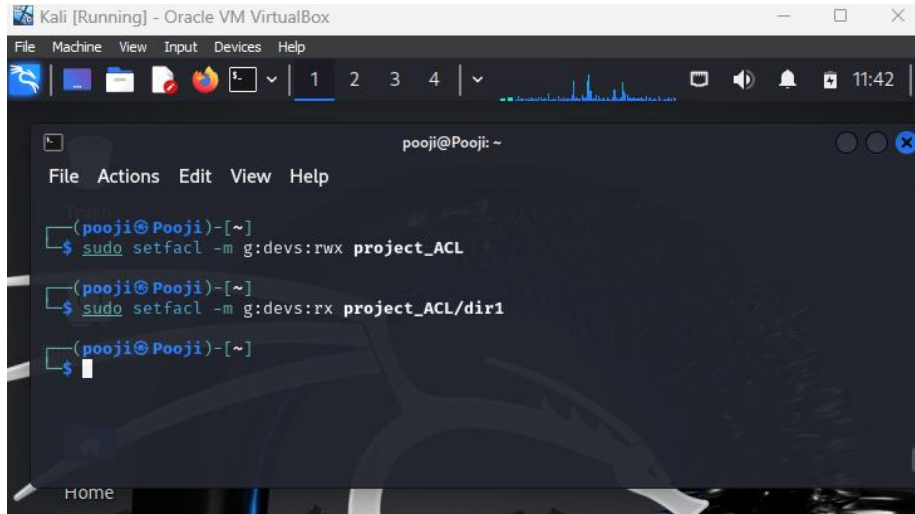
Step 8: Set ACL for Groups on Directories

(command used – setfacl -m g:"groupname":"permissions")
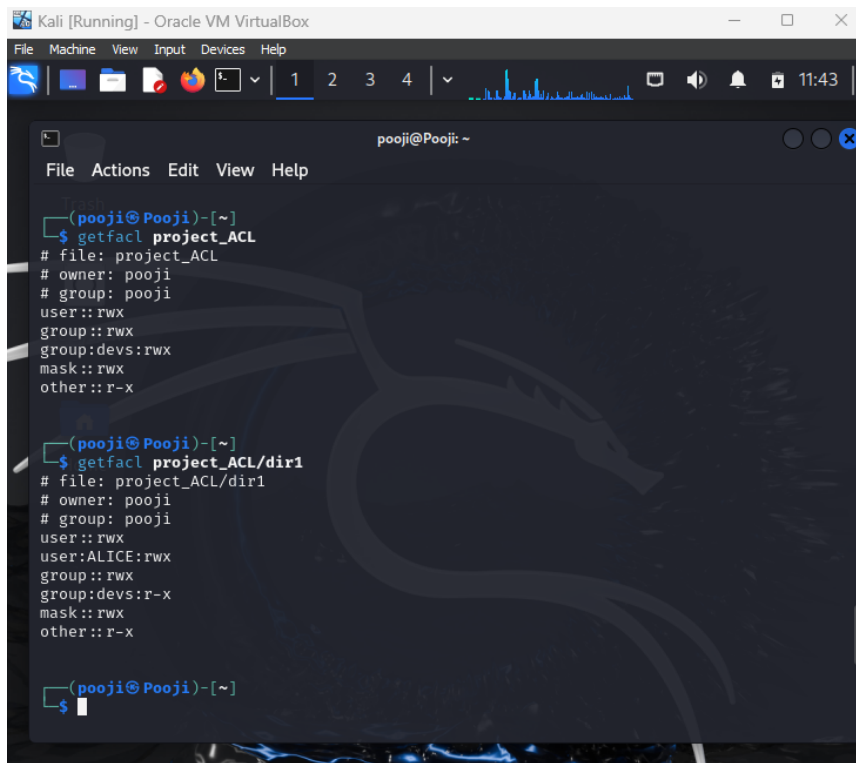
Grant different permissions to the "devs" group

Step 9: Check the ACL of directories (dir1) and see if the group permissions are done.

(command used – getfacl)

Verify that group permissions are applied:
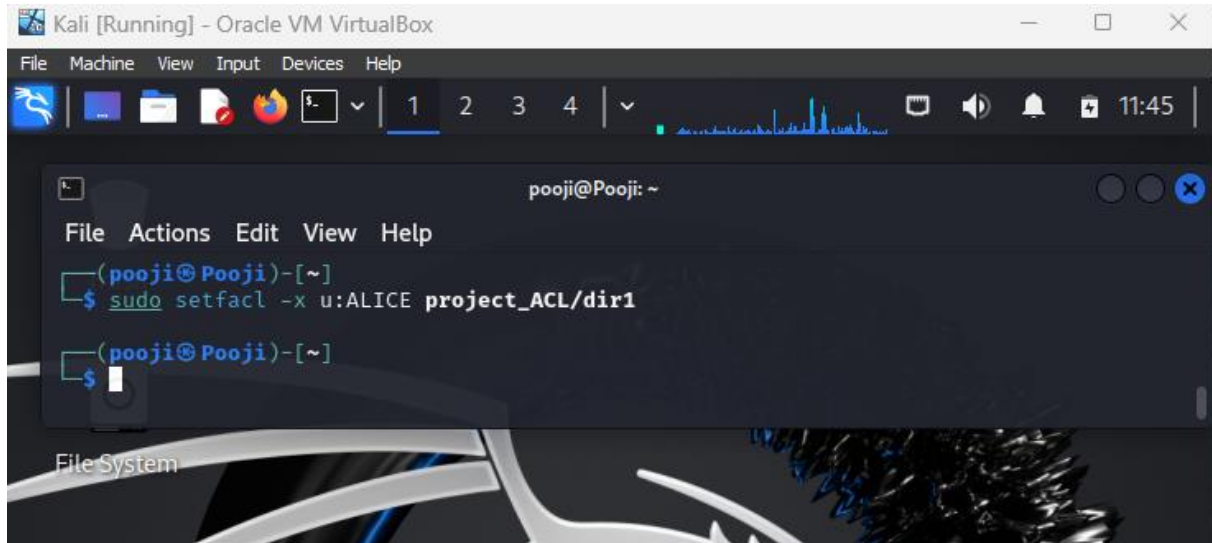
10. Cancel some permissions given to a user or a group over a directory

(commands used – setfacl -x u:"username" directory)

Remove ALICE's access to dir1:
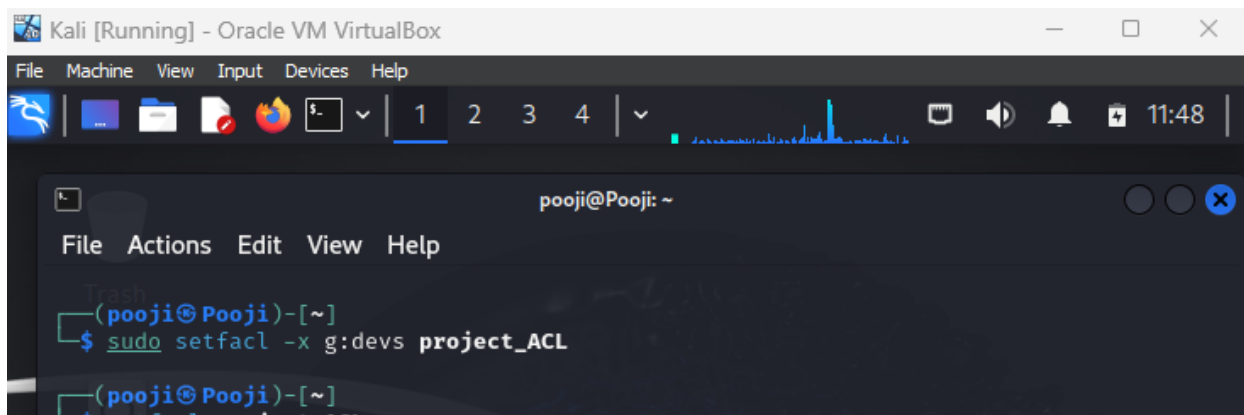

(commands used – setfacl -x g:"group name")
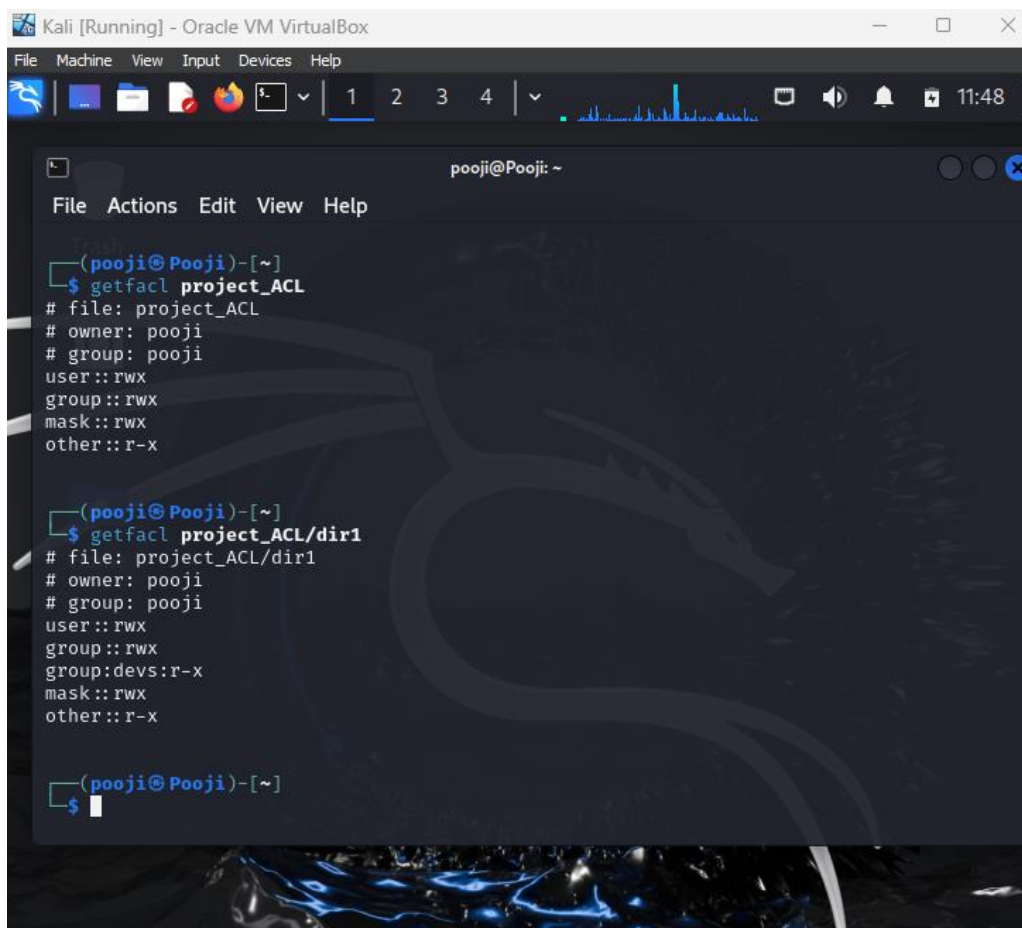
Remove "devs" group access from project_ACL:

(commands used – getfacl)

Verify: